



05/07/97

SEQUENCE LISTING

(1) GENERAL INFORMATION:

(i) APPLICANT: FUCHS, Martin
EGHOLM, Michael
O'KEEFE, Heather
YOA, Xian-Wei

(ii) TITLE OF INVENTION: METHODS AND KITS FOR HYBRIDIZATION
ANALYSIS USING PEPTIDE NUCLEIC ACID PROBES

(iii) NUMBER OF SEQUENCES: 10

(iv) CORRESPONDENCE ADDRESS:

(A) ADDRESSEE: Patent Administrator, Testa Hurwitz &
Thibeault, LLP
(B) STREET: 125 High Street
(C) CITY: Boston
(D) STATE: Massachusetts
(E) COUNTRY: USA
(F) ZIP: 02110

(v) COMPUTER READABLE FORM:

(A) MEDIUM TYPE: Floppy disk
(B) COMPUTER: IBM PC compatible
(C) OPERATING SYSTEM: PC-DOS/MS-DOS
(D) SOFTWARE: PatentIn Release #1.0, Version #1.30

(vi) CURRENT APPLICATION DATA:

(A) APPLICATION NUMBER:
(B) FILING DATE:
(C) CLASSIFICATION:

(viii) ATTORNEY/AGENT INFORMATION:

(A) NAME: TURANO, THOMAS A.
(B) REGISTRATION NUMBER: 35,722
(C) REFERENCE/DOCKET NUMBER: SYP-116

(ix) TELECOMMUNICATION INFORMATION:

(A) TELEPHONE: (617) 248-7000
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(2) INFORMATION FOR SEQ ID NO:1:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 15 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: other nucleic acid
(A) DESCRIPTION: /desc = "biotinylated peptide
nucleic acid"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:

ATGCAGGAGT CGCAT

15

(2) INFORMATION FOR SEQ ID NO:2:

(i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 15 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: other nucleic acid
 (A) DESCRIPTION: /desc = "fluorescein labeled peptide nucleic acid"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:

CTTTCCTCCA CTGTT

15

(2) INFORMATION FOR SEQ ID NO:3:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 15 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: other nucleic acid
 (A) DESCRIPTION: /desc = "fluorescein labeled peptide nucleic acid"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:3:

CTTTCCCTTCA CTGTT

15

(2) INFORMATION FOR SEQ ID NO:4:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 15 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: other nucleic acid
 (A) DESCRIPTION: /desc = "fluorescein labeled peptide nucleic acid"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:4:

GGTCACTATC AGTCA

15

(2) INFORMATION FOR SEQ ID NO:5:

(i) SEQUENCE CHARACTERISTICS:
 (A) LENGTH: 15 base pairs
 (B) TYPE: nucleic acid
 (C) STRANDEDNESS: single
 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: other nucleic acid
 (A) DESCRIPTION: /desc = "fluorescein labeled peptide nucleic acid"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:5:

TTTTCCCAGT CACGA

15

(2) INFORMATION FOR SEQ ID NO:6:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 15 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: other nucleic acid
 (A) DESCRIPTION: /desc = "fluorescein labeled peptide nucleic acid"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:6:

TTTTCCCAGG CACGA

15

(2) INFORMATION FOR SEQ ID NO:7:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 15 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: other nucleic acid
 (A) DESCRIPTION: /desc = "fluorescein labeled peptide nucleic acid"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:7:

TTTTCACAGG CACGA

15

(2) INFORMATION FOR SEQ ID NO:8:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 13 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: other nucleic acid
 (A) DESCRIPTION: /desc = "fluorescein labeled peptide nucleic acid"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:8:

AACACCAAA GAT

13

(2) INFORMATION FOR SEQ ID NO:9:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 13 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: other nucleic acid
 (A) DESCRIPTION: /desc = "fluorescein labeled peptide nucleic acid"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:9:

ACACCAATGA TAT

(2) INFORMATION FOR SEQ ID NO:10:

- (i) SEQUENCE CHARACTERISTICS:
(A) LENGTH: 15 base pairs
(B) TYPE: nucleic acid
(C) STRANDEDNESS: single
(D) TOPOLOGY: linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:10:

ATGCGACTCC TGCAT